FILE NOTATIONS

Entered in NID File ✓
Location Map Pinned ✓
Card Indexed .....

Checked by Chief PWB
Approval Letter 1-23-73
Disapproval Letter .....

COMPLETION DATA:

Date Well Completed .....

Location Inspected .....

OW..... WW..... TA.....
GW..... OS..... PA.....

Bond released
State or Fee Land .....

LOGS FILED

Driller's Log.....
Electric Logs (No.) .....
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... Mi-L..... Sonic.....
CBLog..... CCLog..... Others.....

THE ANSCHUTZ CORPORATION

1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303—573-5665

July 16, 1973

Mr. Geral R. Daniels
U.S. Geological Survey
8416 Federal Bldg.
Salt Lake City, Utah 84111

Mr. Cleon B. Feight
Division of Oil & Gas Conservation
1588 West, North Temple
Salt Lake City, Utah 84116

Re: Anschutz #1 Federal 915
SW NW Sec. 13-17S-22E
Grand County, Utah
Federal Lease U-10282

Anschutz #1 Federal 051
SE SW Sec. 22-16S-23E
Grand County, Utah
Federal Lease U-14051

Gentlemen:

Transmitted herewith in triplicate is the APPLICATION FOR PERMIT TO DRILL for the captioned wells. Survey plats and development plans for surface use are attached.

Drilling bond and designation of operator from the lessee of record to Anschutz will be forwarded very soon.

Yours very truly,

THE ANSCHUTZ CORPORATION

W. W. Wakefield
Vice President

WWW:kcw
Enclosures

Form 9-331 C
(May 1963)

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK: DRILL ☒ DEEPEN ☐ PLUG BACK ☐

b. TYPE OF WELL: OIL WELL ☒ GAS WELL ☐ OTHER — SINGLE ZONE ☐ MULTIPLE ZONE ☐

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 1110 Denver Club Building, Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*)
At surface: NE SW NW Sec. 13 — 1794' SNL, 783' WWL
At proposed prod. zone

5. LEASE DESIGNATION AND SERIAL NO.: U-16282

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal 13

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 13-17S-22E SLM

12. COUNTY OR PARISH: Grand — 13. STATE: Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*: Approx. 20 miles northwest of Harley Dome, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any): 846'

16. NO. OF ACRES IN LEASE: 2080

17. NO. OF ACRES ASSIGNED TO THIS WELL: ---

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.: ------

19. PROPOSED DEPTH: 8100

20. ROTARY OR CABLE TOOLS: Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.): 6659 KB 6648 GL

22. APPROX. DATE WORK WILL START*: 8-3-72

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
15"	10 3/4"	45	300'	200 sx (circulated)
9 7/8"	7 5/8"	26	7400'	100 sx
6 1/2"	4 1/2"	11-13	8100'	150 sx

We propose to drill this well to an approximate total depth of 8100' in the Entrada formation. Hole will be drilled with air, changing to mud as hole conditions require. Electric logs will be run as warranted. If production is encountered casing will be set through the pay section and selectively perforated; fracing or acidizing may be necessary to stimulate production. Drilling bond and designation of operator from lease of record (U. S. Bond) being forwarded.
Survey plats are attached.
Development plan for surface use attached.

Very Rough topog. - Approve Under Rule C-3

Conditional upon sufficient cement behind 4½" etc

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED W. W. Mahaffey — TITLE Vice President — DATE 7-26-72

(This space for Federal or State office use)

PERMIT NO. 43-019-30171 — APPROVAL DATE

APPROVED BY — TITLE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions On Reverse Side

LOCATION PLANS FOR
ANSCHUTZ #1 FED.915 WELL
SW.NW.SEC.13-17S-22E
GRAND COUNTY,UTAH

1. A survey plat (Plat No.1) is attached showing the location of the well. Map No.1 shows the route to the well site from Hwy 50-6 (I-70).

2. Map No.2 shows the access road to the well site from present roads. The proposed road will be built along the flagged route on the ground.

3. All present wells and dry holes in the area around the proposed well site are shown on Map No.2.

4. See 1 and 2 above.

5. A plan for the location of production equipment at the well site, if the well is successful, is shown on Plat No.2. If oil, a pump jack, heater-treater, and tank battery will be installed. If gas, a dehydrator, flow lines, and fluid tank will be installed. This is a wildcat well and there are no nearby facilities.

6. Water for drilling purposes can usually be obtained from some of the springs in the area or from Westwater Creek if the springs are not running. Bitter Creek should also have water. The water will be hauled to the well site by truck.

7. A plat showing the plan for placement of the drilling equipment to be used in the drilling of the proposed well is shown on Plat No.3. This plat shows the reservepit and garbage (burn) pit. Excess drilling mud, waste water, and cuttings will be deposited into the reserve pit during drill-operations. The garbage and burnable material will be put into the burn pit. At the completion of the well these pits will be folded-in and levelled.

8. See location of house trailers on Plat No.3.

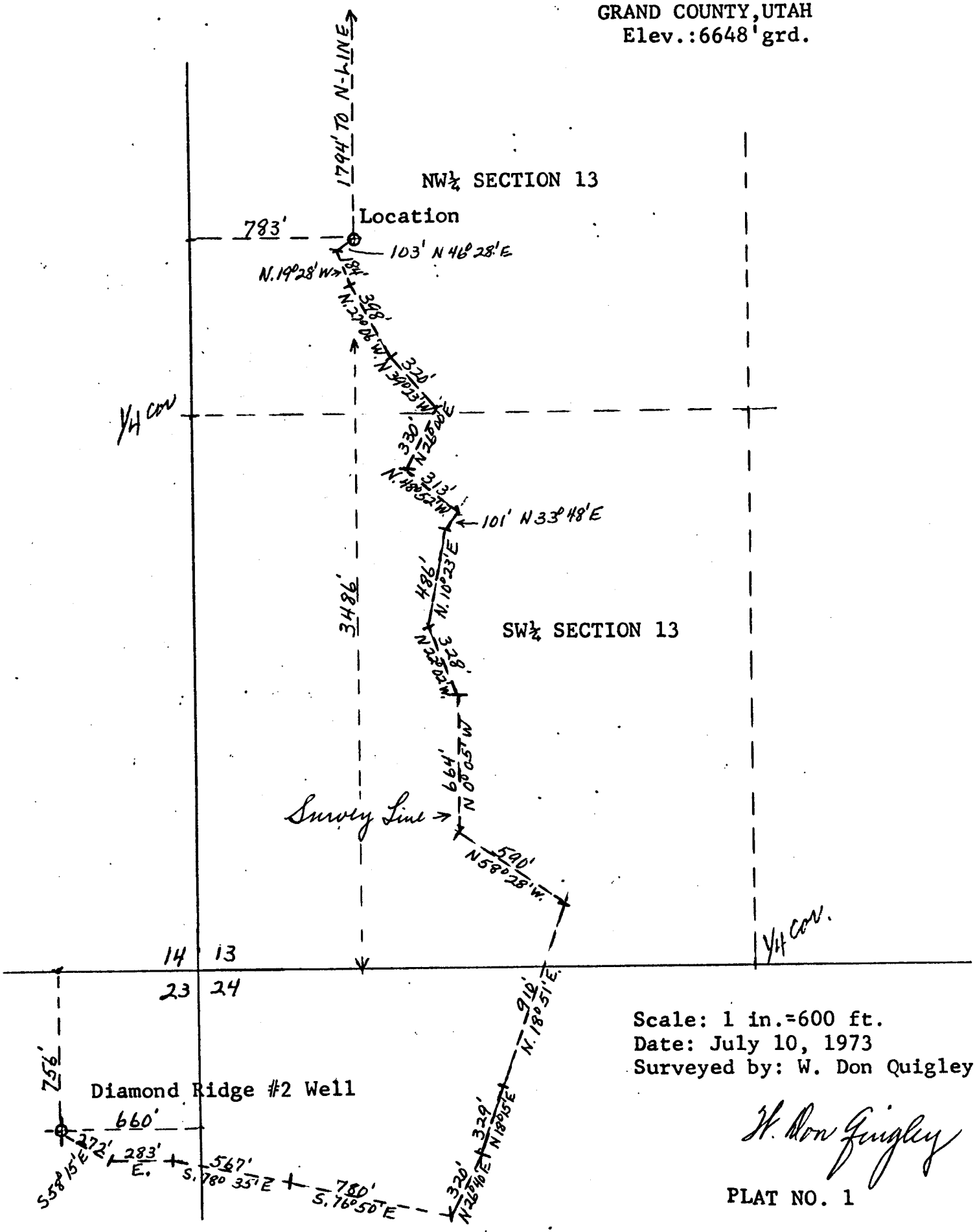
9. There are no air strips in the surrounding area near the well site.

10. See Plat No.3 for the drilling equipment layout.

11. There is no topsoil at the proposed well site. This is in the floor of a steep canyon which is covered with rocks and gravel. Some brush and sage brush are growing among the rocks but it is quite sparse. Some juniper trees are present. After the well is completed and abandoned (if dry), the well site will be cleaned and levelled and the pits will be covered. Seeding will be done if required; but the position in the canyon would probably make seeding useless.

12. As can be readily seen by the topography shown on Map. No. 2, the area is rugged and has steep cliffs, narrow canyons, and numerous dry washes. Access is permitted only by following the narrow canyons. Road construction is often made in the bottom of the washes to minimize the amount of blasting and disturbance of the rock outcrops. The amount of fill is kept to a minimum to eliminate the destruction of the road as much as possible.by flash floods down the canyon. The rocks exposed along the sides of the canyons in the area of the access road and drill site are shales and sandstones belonging to the lower Mesaverde formation. There are a few thin coal seams ((less than 18 inches in thickness) in places; but these are up on the sides of the canyon and will not be disturbed.

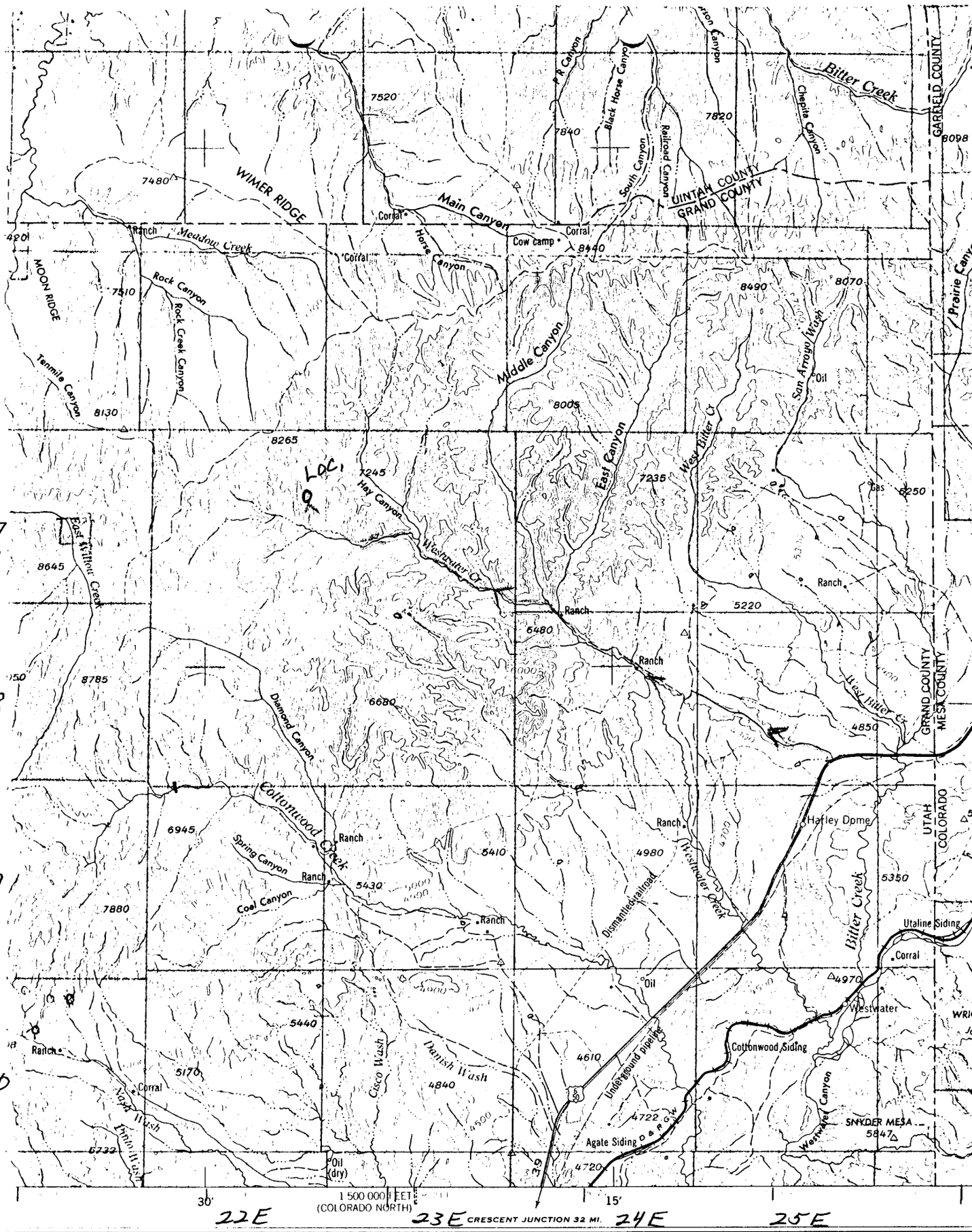
LOCATION PLAT FOR
ANSCHUTZ #1 FED.915 WELL
SW.NW.SEC.13-17S-22E
GRAND COUNTY,UTAH
Elev.:6648'grd.



Scale: 1 in.=600 ft.
Date: July 10, 1973
Surveyed by: W. Don Quigley

W. Don Quigley

PLAT NO. 1



1 500 000 FEET
(COLORADO NORTH)

LEGEND

ROAD DATA 1956

gures in red denote approximate distances in miles between stars

OS ANGELES
OMAHA
GALVESTON
Laramie
Grand Coulee
Sun Valley

ROADS

	3 LANES	4 LANES
Hard surface, heavy duty		
More than two lanes wide		
Two lanes wide; Federal route marker	(5)	
Hard surface, medium duty		
More than two lanes wide		
Two lanes wide, State route marker	(11)	
Improved light duty		
Unimproved dirt		
Trail		

Multiple

Landplane airport
Landing area
Seaplane airport
Orchard
Woods, brushwood

Landmarks: School; Church; Other
Horizontal control point
Spot elevation in feet 221
Marsh or swamp
Intermittent or dry stream
Power line

5 0 5

5 0 5

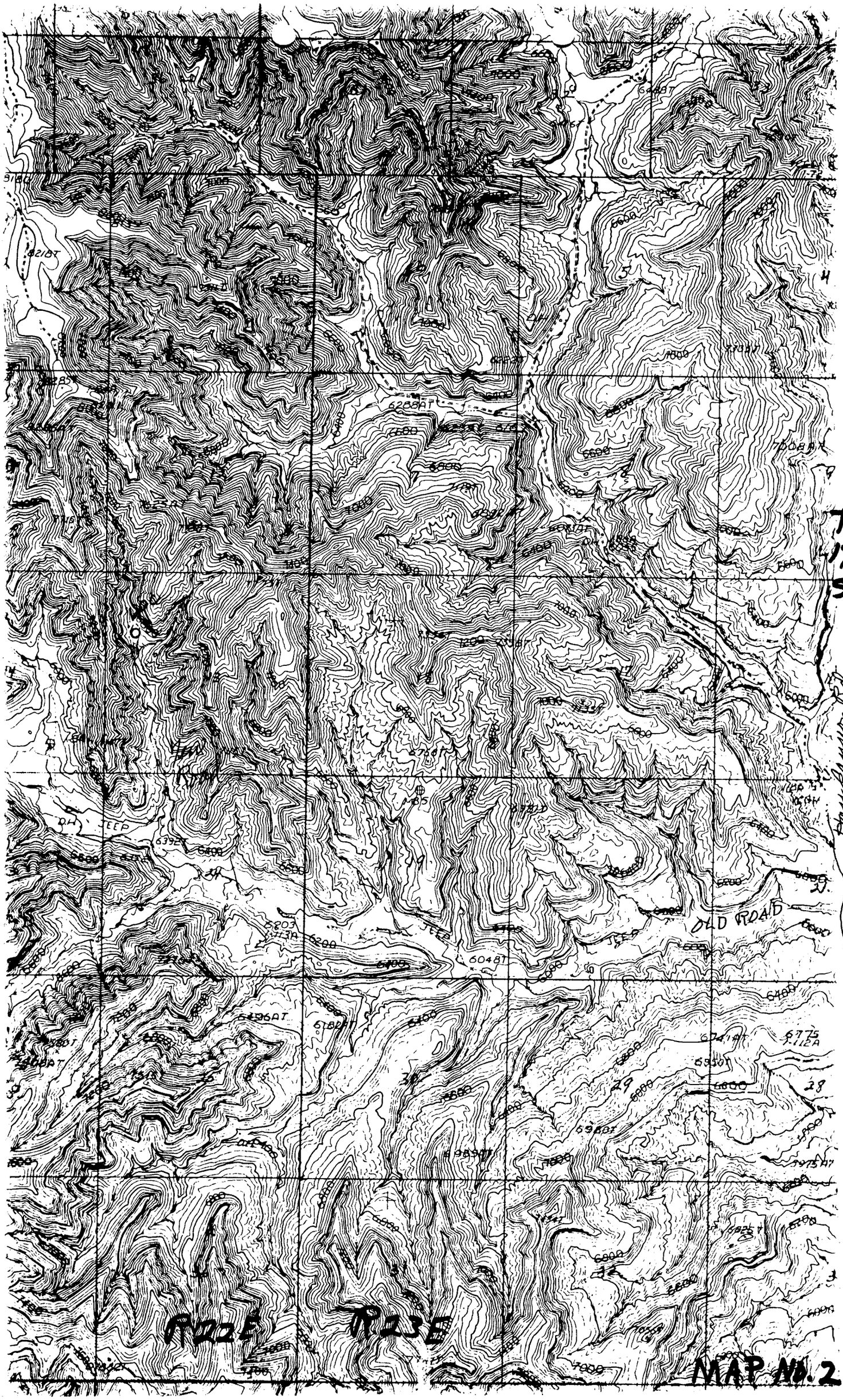
5 0 5

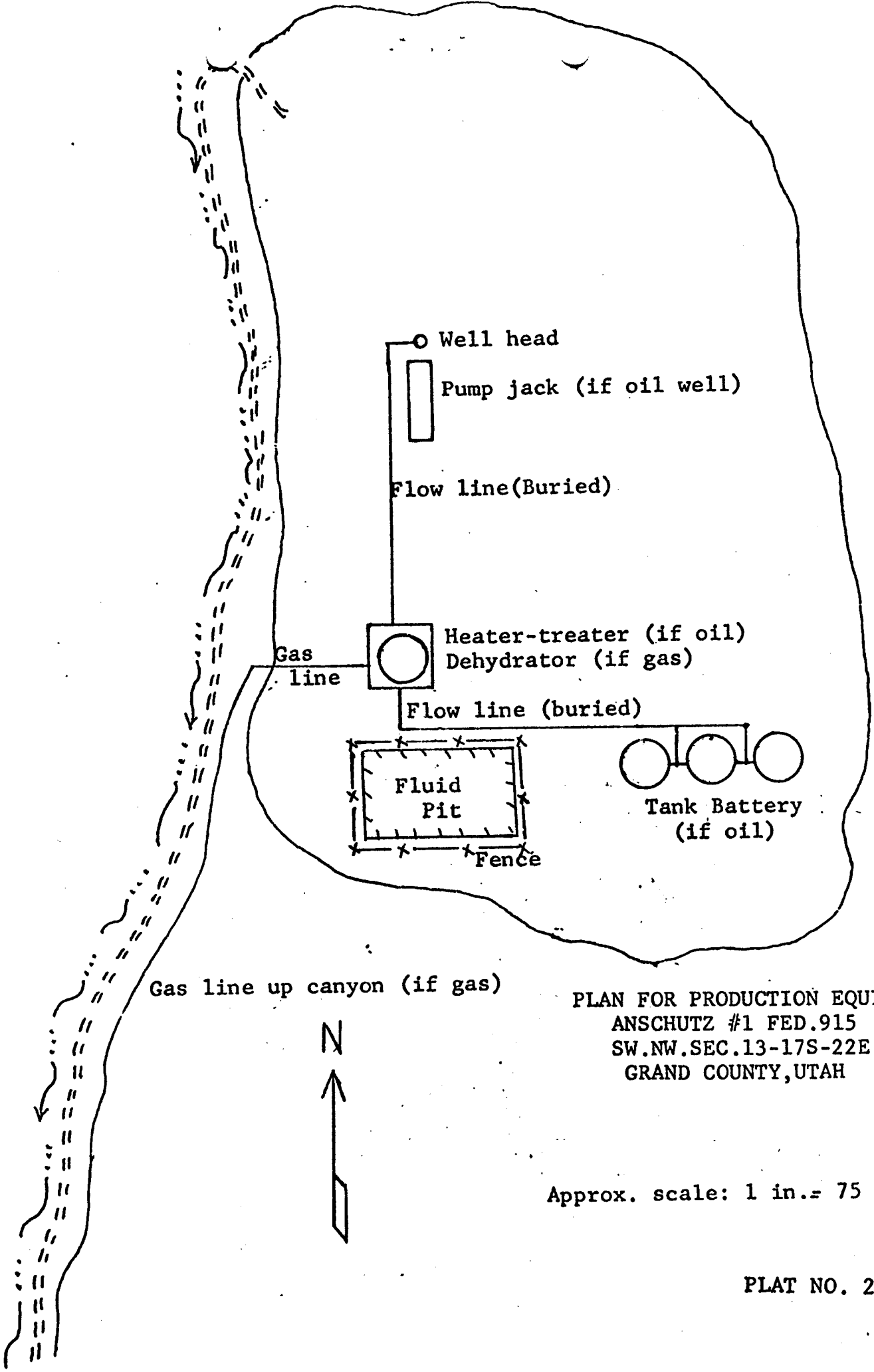
CONTOU
WITH SUPPLEMENTARY
TRANSVERSE

1955 MAGNETIC DECLINATION FOR THIS SHE
EDGE TO 14° 45' EASTERLY FOR THE CENTE

FOR SALE BY U.S. GEOLOGICAL SURVEY,

MAP NO. 1

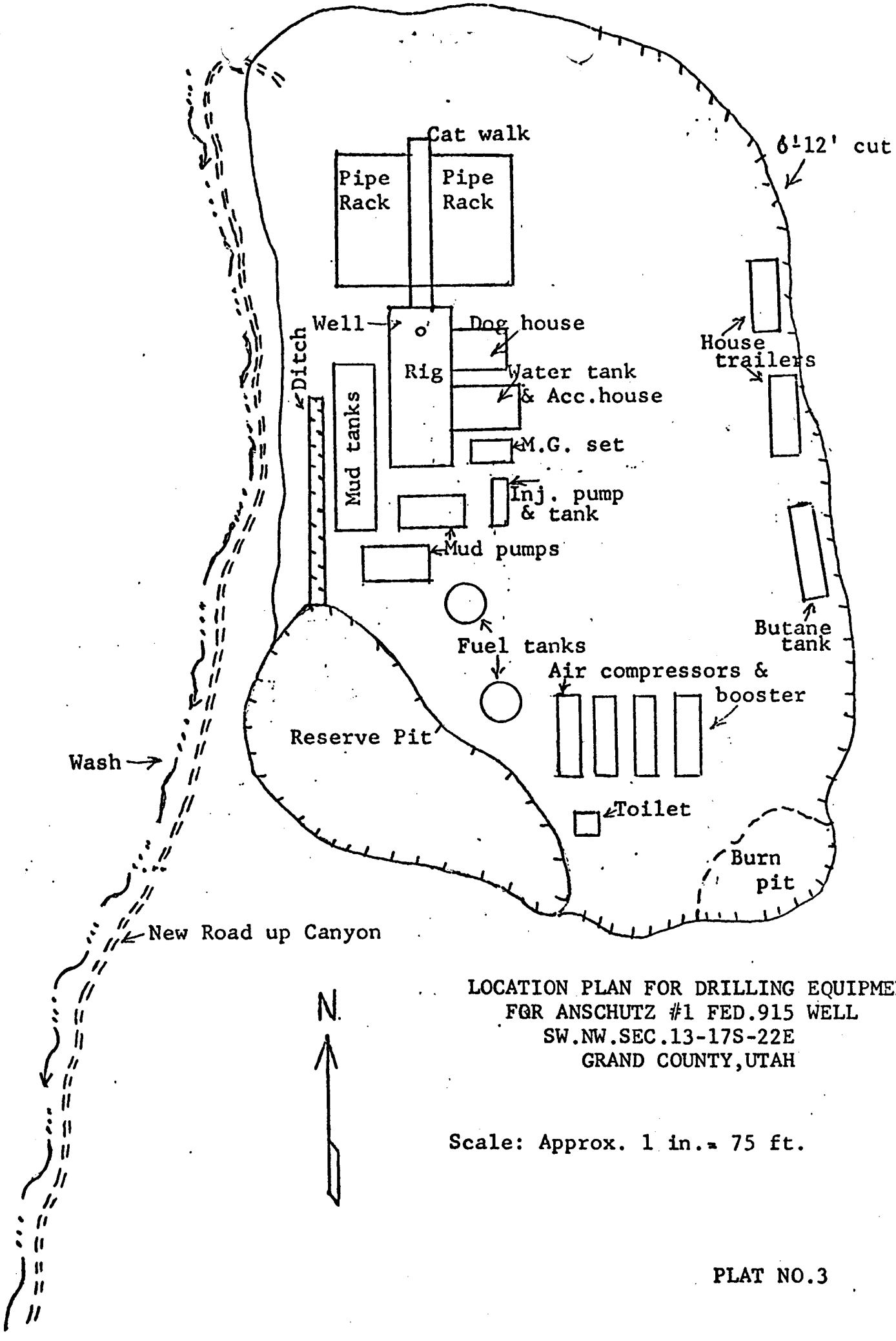

R12E
R13E
T17S
OLD ROAD
JEEP
MAP NO. 2



PLAN FOR PRODUCTION EQUIPMENT
ANSCHUTZ #1 FED.915
SW.NW.SEC.13-17S-22E.
GRAND COUNTY,UTAH

Approx. scale: 1 in.= 75 ft.

PLAT NO. 2



LOCATION PLAN FOR DRILLING EQUIPMENT
FOR ANSCHUTZ #1 FED.915 WELL
SW.NW.SEC.13-17S-22E
GRAND COUNTY,UTAH

Scale: Approx. 1 in.= 75 ft.

PLAT NO.3

July 23, 1973

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

Re: WELL No's:
Federal 915 - #1
Sec. 13, T. 17 S, R. 22 E,
Federal 051 - #1
Sec. 22, T. 16 S, R. 23 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to wells is hereby granted in accordance with the topographic provisions under Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, said approval is conditional upon sufficient cement being placed behind the 7 5/8" casing to cover or isolate any significant zones of porosity, hydrocarbons, or water.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer
HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

The API numbers assigned to these wells are: 915-#1: 43-019-30171; and 051-#1: 43-019-30172.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT
DIRECTOR

CBF:sd

CALVIN L. RAMPTON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

STATE OF UTAH

DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL & GAS CONSERVATION

1588 WEST NORTH TEMPLE
SALT LAKE CITY, UTAH 84116
328-5771

September 12, 1973

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado 80202

Re: Well No's:
State 428 - #1
Sec. 5, T. 16 S, R. 22 E,
Federal 051 - #1
Sec. 22, T. 16 S, R. 23 E,
Federal 915 - #1
Sec. 13, T. 17 S, R. 22 E,
Grand County, Utah

Gentlemen:

Our records indicate that you have not filed a "Monthly Report of Operations" for the months of July and August, 1973, on the subject wells.

Rule C-22, General Rules and Regulations and Rules of Practice and Procedure, requires that said reports be filed on or before the sixteenth (16) day of the succeeding month. This report may be filed on Form OGC-1b, (U.S. Geological Survey 9-331), "Sundry Notices and Reports on Wells", or on company forms containing substantially the same information.

Your cooperation relative to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

SCHEREE DeROSE
EXECUTIVE SECRETARY

9-18-73

No doubt, first well started in September. Will keep you posted.

Jack Haley

4D

PI PYb

ORAL APPROVAL TO PLUG AND ABANDON WELL

Operator The Anschutz Corp Representative Ed Mueller

Well No. 1-915 Located SW ¼ NW ¼ Sec. 13 Twp. 17S Range 22E

Lease No. U-10282 Field Diamond Ridge Grand Co State Utah.

Unit Name and Required Depth None Base of fresh water sands misting to Entrada - None Noted

T.D. 7647 Size hold and Fill per Sack 6 1/8 " ____ ' Mud Weight and Top 9.3 #/Gal. ____ ' ____

Casing Size	Set At	Top of Cement	To Be Pulled	From	To	Sacks Cement
9 5/8	342	w/200	circ	7600	up	20 sx
7"	3426	w/150 sx. maybe.		7350	up	20

Formation	Top	Base	Shows	From	To	Sacks Cement
				7000	up	20 sx
Castlegate	3174			6700	up	20 sx
Dakota silt	6716			3425	up	20 sx
Dakota Sd.	6824			stub	if 7" pulled	35 sx
Morrison	6990			350	" " "	40 sx
				10 sx @ surface		
Saltwash	7360					
Entrada	7583			if 7"	not pulled	
				10 sx	inside 7"	
				10 sx	in 7" x 9 5/8 annulus -	

Remarks

DST's, lost circulation zones, water zones, etc. Castlegate test - nothing - Water in top of Entrada -

Approved by [signature] Date 1-14-73 Time 9:30 A.M. ~~P.M.~~

State Div. O & G

FLUID SAMPLE DATA

Sampler Pressure	0 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas	0
cc. Oil	0
cc. Water	1250
cc. Mud	1000
Tot. Liquid cc.	2250
Gravity	° API @ °F.
Gas/Oil Ratio	cu. ft./bbl.

	RESISTIVITY			CHLORIDE CONTENT
Recovery Water		@	°F.	ppm
Recovery Mud		@	°F.	ppm
Recovery Mud Filtrate		@	°F.	ppm
Mud Pit Sample	2.7	@ 78	°F.	ppm
Mud Pit Sample Filtrate		@	°F.	1400 ppm
Mud Weight	9.1	vis 24		cp

Date	12-24-73
Ticket Number	611924
Kind of Job	STRADDLE TEST OPEN HOLE
Halliburton District	VERNAL
Tester	CANTWELL
Witness	MUELLER
Drilling Contractor	PEASE DRILLING COMPANY NM S

EQUIPMENT & HOLE DATA

Formation Tested	Castlegate		
Elevation	6659' K.B.		Ft.
Net Productive Interval	16'		Ft.
All Depths Measured From	Kelly Bushing		
Total Depth	3430'		Ft.
Main Hole/Casing Size	8 3/4"		
Drill Collar Length	361.23'	I.D.	2¼"
Drill Pipe Length	2802'	I.D.	3.826"
Packer Depth(s)	3175' - 3180' - 3196'		Ft.
Depth Tester Valve	3157'		Ft.

Cushion TYPE NONE AMOUNT Ft. Depth Back Pres. Valve NONE Surface Choke 1/8" Bottom Choke 3/4"

Recovered 170' Feet of mud cut water

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Meas. From Tester Valve

Remarks Tool opened for a 7 minute first flow with a weak blow - ½" in water and remained weak. Closed tool for a 30 minute first closed in pressure. Tool reopened with a weak ½" in water - remained weak. Took a 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 430 Depth: 3158' Ft.	Gauge No. 76 Depth: 3191' Ft.	Gauge No. 1531 Depth: 3208' Ft.	TIME
	? Hour Clock	24 Hour Clock	12 Hour Clock	Tool Opened 7:41 A.M. P.M.
Est. °F.	Blanked Off NO	Blanked Off YES	Blanked Off YES	
Actual 95 °F.	Pressures	Pressures	Pressures	Opened Bypass 10:15 A.M. P.M.

		Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic		1539	1542	1564	1568	1564	1570		
First Period	Flow Initial	2.8	14	5.6	39	-	-	———	———
	Flow Final	8.3	18	27.9	39	-	-	4	7
	Closed in	684	677	692	699	-	-	30	30
Second Period	Flow Initial	22	21	27.9	56	-	-	———	———
	Flow Final	82	75	83.6	88	-	-	60	58
	Closed in	629	635	651	653	HYDROSTATIC RELEASE:		60	60
Third Period	Flow Initial						1537	———	———
	Flow Final								
	Closed in								
Final Hydrostatic		1539	1542	1564	1568	1564	1570	———	———

FORM 181—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 83974 8M 8/73

Legal Location Sec. - Twp. - Rng. 13 - 17S - 22E

Lease Name FEDERAL 915

Well No. 1

Test No. 1

Field Area WILDCAT

County GRAND

State UTAH

Tested Interval 3180' - 3196'

Lease Owner/Company Name THE ANSCHUTZ CORPORATION INCORPORATED

18

Gauge No.	430	Depth	3158'	Clock No.	7127	12 hour	Ticket No.	611924

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	14	.000		18	.000	21	.000		75					
1	.040	18	.0207		568	.0560	30*	.0412		492					
2			.0414		617	.1260	41	.0824		545					
3			.0621		640	.1960	49	.1236		572					
4			.0828		652	.2660	59	.1648		590					
5			.1035		660	.3360	67	.2060		602					
6			.1242		666	.4060	75	.2472		611					
7			.1449		670			.2884		620					
8			.1656		673			.3296		625					
9			.1863		675			.3708		629					
10			.2070		677			.4120		635					
11															
12															
13															
14															
15															

Gauge No.	76	Depth	3191'	Clock No.	4090	hour	24

0	.000	39	.000		39	.000	56	.000		88					
1	.025	39	.010		560	.0272	52*	.020		499					
2			.020		619	.0612	58	.040		556					
3			.030		650	.0952	68	.060		583					
4			.040		669	.1292	74	.080		601					
5			.050		678	.1632	81	.100		614					
6			.060		685	.1970	88	.120		625					
7			.070		691			.140		634					
8			.080		695			.160		642					
9			.090		696			.180		649					
10			.100		699			.200		653					
11															
12															
13															
14															
15															

Reading Interval	3	10	6		Minutes

REMARKS: * INTERVAL = 8 MINUTES.

81

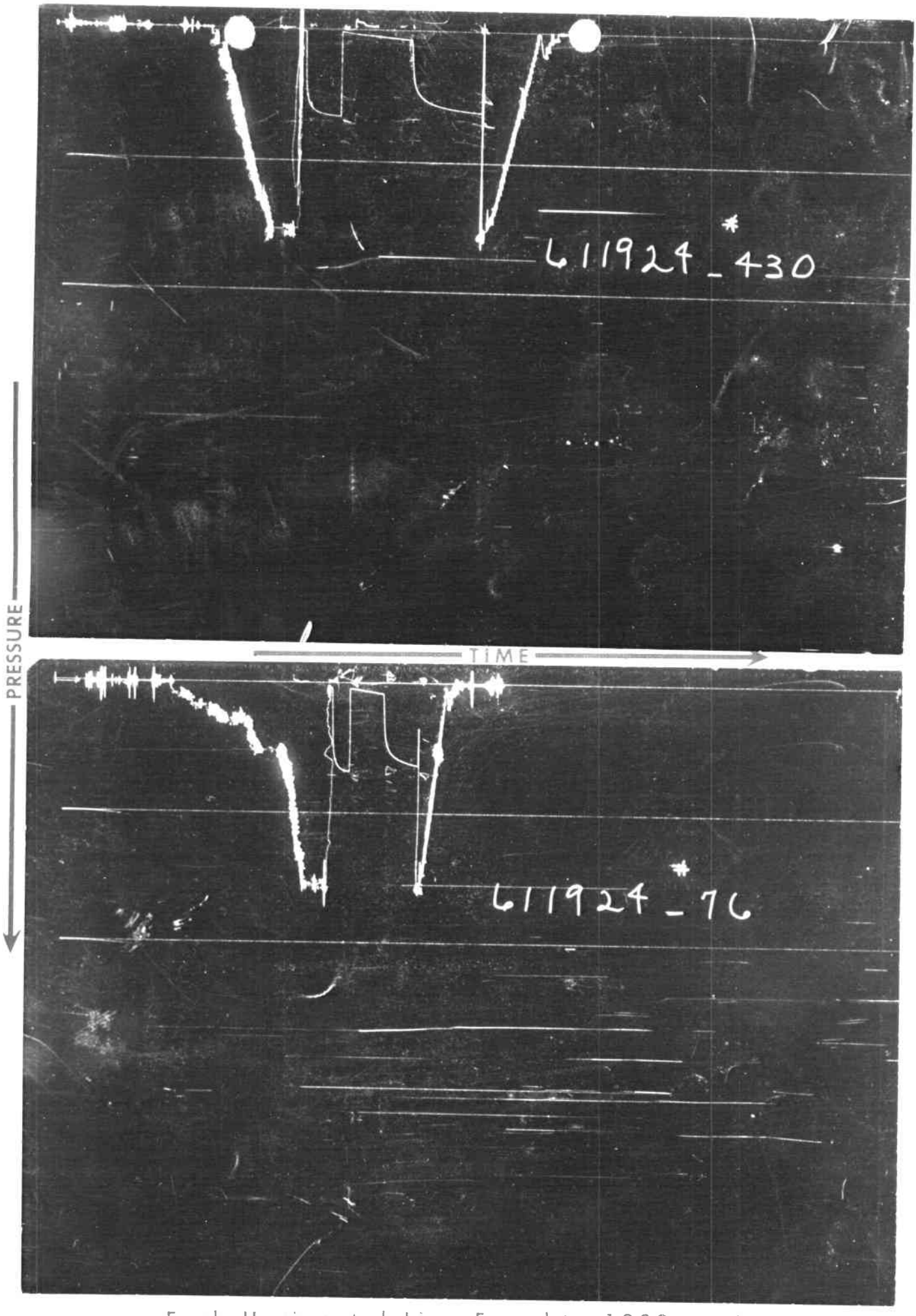
FORM 183—PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

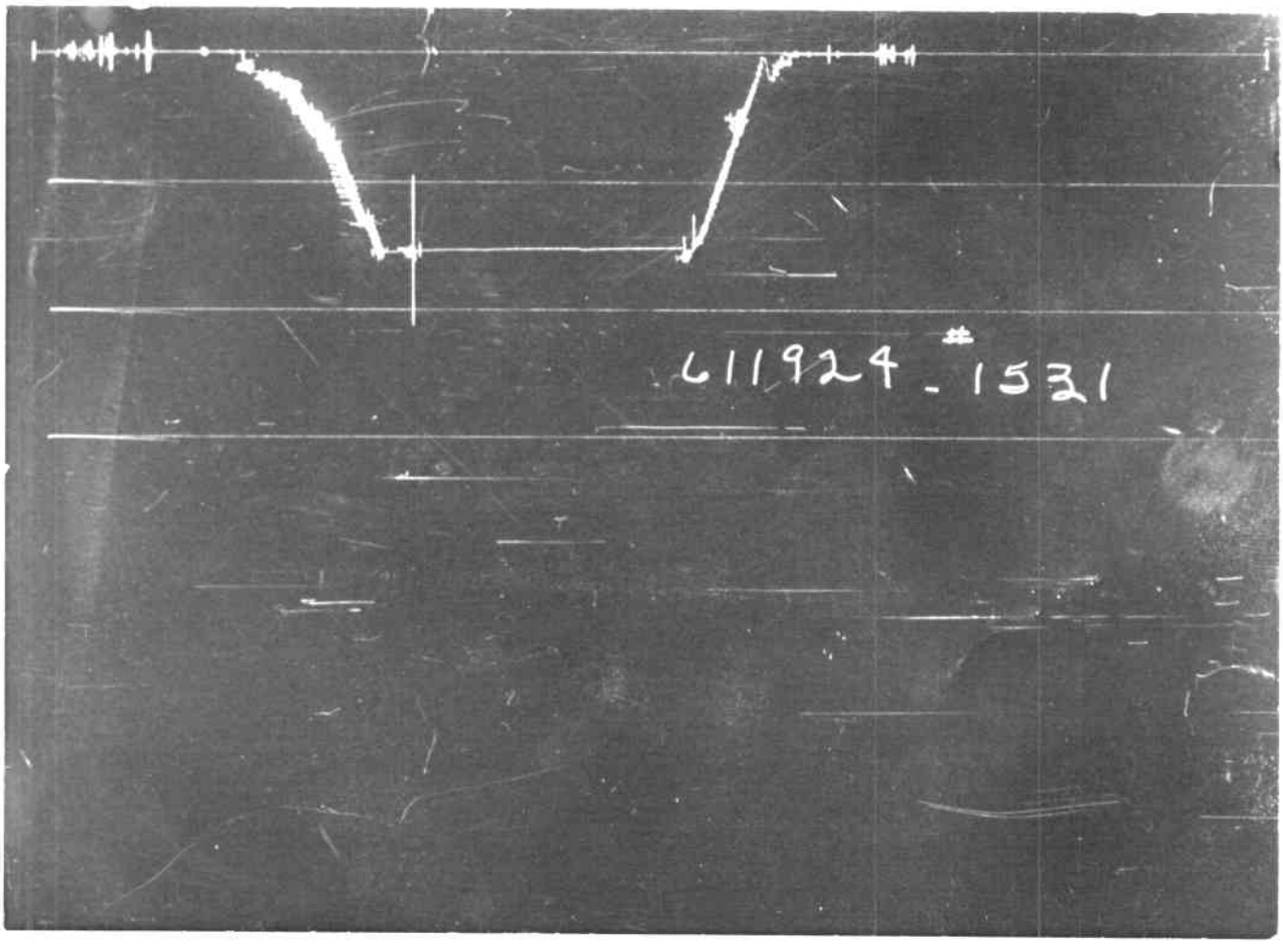
LITTLE'S 93976 5M 8/73

TICKET NO. 611924

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2802'	
Drill Collars	6"	2¼"	361.23'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.89"	7.43'	
Hydro-Spring Tester	5"	.75"	5.00'	3157'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.37"	4.12'	3158'
Hydraulic Jar	5"	1.75"	5.00'	
VR Safety Joint	5"	1"	2.45'	
Pressure Equalizing Crossover	5"	1"	1.00'	
Packer Assembly	7 3/4"	1.53"	5.82'	3175'
Distributor				
Packer Assembly	7 3/4"	1.53"	4.55'	3180'
Flush Joint Anchor	5 3/4"	4 3/4"	12'	
Pressure Equalizing Tube	1 1/8"	½"	18'	
Blanked-Off B.T. Running Case	5"	2.37"	4.14'	3191'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	7 3/4"	1.53"	4.55'	3196'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor	7¼"	1.62"	5'	3201'
Drill Collars				
Flush Joint Anchor	5 3/4"	4 3/4"	3'	
Blanked-Off B.T. Running Case	5 3/4"	2.5"	4.5'	3208'
Total Depth				3430'



Each Horizontal Line Equal to 1000 p.s.i.



FLUID SAMPLE DATA

Sampler Pressure	0 P.S.I.G. at Surface
Recovery: Cu. Ft. Gas	0
cc. Oil	0
cc. Water	1250
cc. Mud	1000
Tot. Liquid cc.	2250
Gravity	° API @ °F.
Gas/Oil Ratio	cu. ft./bbl.

	RESISTIVITY	CHLORIDE CONTENT
Recovery Water	@ °F.	ppm
Recovery Mud	@ °F.	ppm
Recovery Mud Filtrate	@ °F.	ppm
Mud Pit Sample	2.7 @ 78 °F.	ppm
Mud Pit Sample Filtrate	@ °F.	1400 ppm
Mud Weight	9.1 vis 24 cp	

Date	12-24-73
Ticket Number	611924
Kind of Job	STRADDLE TEST OPEN HOLE
Halliburton District	VERNAL
Tester	CANTWELL
Witness	MUELLER
Drilling Contractor	PEASE DRILLING COMPANY

EQUIPMENT & HOLE DATA

Formation Tested	Castlegate
Elevation	6659' K.B. Ft.
Net Productive Interval	16' Ft.
All Depths Measured From	Kelly Bushing
Total Depth	3430' Ft.
Main Hole/Casing Size	8 3/4"
Drill Collar Length	361.23' I.D. 2¼"
Drill Pipe Length	2802' I.D. 3.826"
Packer Depth(s)	3175' - 3180' - 3196' Ft.
Depth Tester Valve	3157' Ft.

Cushion TYPE NONE AMOUNT Ft. Depth Back Pres. Valve NONE Surface Choke 1/8" Bottom Choke 3/4"

Recovered 170' Feet of mud cut water

Recovered Feet of

Recovered Feet of

Recovered Feet of

Recovered Feet of

Meas. From Tester Valve

Remarks: Tool opened for a 7 minute first flow with a weak blow - ½" in water and remained weak. Closed tool for a 30 minute first closed in pressure. Tool reopened with a weak ½" in water - remained weak. Took a 60 minute second closed in pressure.

TEMPERATURE	Gauge No. 430 Depth: 3158' Ft.		Gauge No. 76 Depth: 3191' Ft.		Gauge No. 1531 Depth: 3208' Ft.		TIME	
	? Hour Clock		24 Hour Clock		12 Hour Clock		Tool Opened 7:41	A.M. P.M.
Est. °F.	Blanked Off NO		Blanked Off YES		Blanked Off YES		Opened	A.M.
Actual 95 °F.	Pressures		Pressures		Pressures		Bypass 10:15	P.M.
	Field	Office	Field	Office	Field	Office	Reported Minutes	Computed Minutes
Initial Hydrostatic	1539	1542	1564	1568	1564	1570		
First Period Flow Initial	2.8	14	5.6	39	-	-	——	——
First Period Flow Final	8.3	18	27.9	39	-	-	4	7
First Period Closed in	684	677	692	699	-	-	30	30
Second Period Flow Initial	22	21	27.9	56	-	-	——	——
Second Period Flow Final	82	75	83.6	88	-	-	60	58
Second Period Closed in	629	635	651	653	HYDROSTATIC RELEASE:		60	60
Third Period Flow Initial						1537	——	——
Third Period Flow Final								
Third Period Closed in								
Final Hydrostatic	1539	1542	1564	1568	1564	1570	——	——

FORM 181—PRINTED IN U.S.A.

FORMATION TEST DATA

LITTLE'S 93974 8M 8/73

Legal Location Sec. - Twp. - Rng. 13 - 17S - 22E

Lease Name FEDERAL 915

Well No. 1

Test No. 1

Tested Interval 3180' - 3196'

Field Area WILDCAT

County GRAND

State UTAH

Lease Owner/Company Name THE ANSCHUTZ CORPORATION INCORPORATED

18

Gauge No.	430	Depth	3158'	Clock No.	7127	12 hour	Ticket No.	611924

	First Flow Period		First Closed In Pressure			Second Flow Period		Second Closed In Pressure			Third Flow Period		Third Closed In Pressure		
	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{\theta}$	PSIG Temp. Corr.
0	.000	14	.000		18	.000	21	.000		75					
1	.040	18	.0207		568	.0560	30*	.0412		492					
2			.0414		617	.1260	41	.0824		545					
3			.0621		640	.1960	49	.1236		572					
4			.0828		652	.2660	59	.1648		590					
5			.1035		660	.3360	67	.2060		602					
6			.1242		666	.4060	75	.2472		611					
7			.1449		670			.2884		620					
8			.1656		673			.3296		625					
9			.1863		675			.3708		629					
10			.2070		677			.4120		635					
11															
12															
13															
14															
15															

Gauge No.	76	Depth	3191'	Clock No.	4090	hour	24

0	.000	39	.000		39	.000	56	.000		88					
1	.025	39	.010		560	.0272	52*	.020		499					
2			.020		619	.0612	58	.040		556					
3			.030		650	.0952	68	.060		583					
4			.040		669	.1292	74	.080		601					
5			.050		678	.1632	81	.100		614					
6			.060		685	.1970	88	.120		625					
7			.070		691			.140		634					
8			.080		695			.160		642					
9			.090		696			.180		649					
10			.100		699			.200		653					
11															
12															
13															
14															
15															

Reading Interval	3	10	6		Minutes

REMARKS: * INTERVAL = 8 MINUTES.

FORM 183—PRINTED IN U.S.A.

SPECIAL PRESSURE DATA

LITTLE'S 93976 SM 6/73

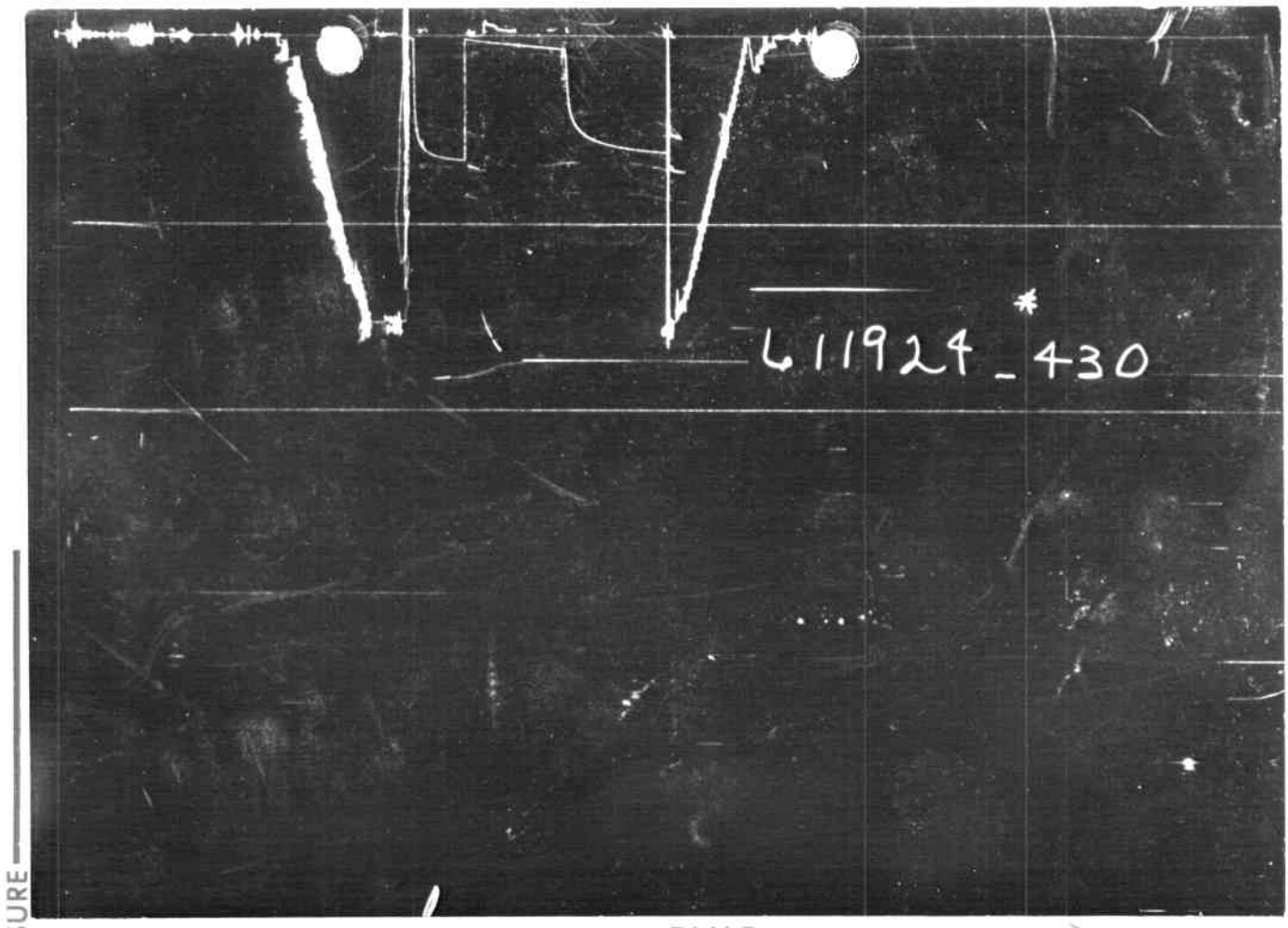
TICKET NO. 611924

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing				
Reversing Sub	6"	3"	1'	
Water Cushion Valve				
Drill Pipe	4½"	3.826"	2802'	
Drill Collars	6"	2¼"	361.23'	
Handling Sub & Choke Assembly				
Dual CIP Valve				
Dual CIP Sampler	5"	.89"	7.43'	
Hydro-Spring Tester	5"	.75"	5.00'	3157'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2.37"	4.12'	3158'
Hydraulic Jar	5"	1.75"	5.00'	
VR Safety Joint	5"	1"	2.45'	
Pressure Equalizing Crossover	5"	1"	1.00'	
Packer Assembly	7 3/4"	1.53"	5.82'	3175'
Distributor				
Packer Assembly	7 3/4"	1.53"	4.55'	3180'
Flush Joint Anchor	5 3/4"	4 3/4"	12'	
Pressure Equalizing Tube	1 1/8"	½"	18'	
Blanked-Off B.T. Running Case	5"	2.37"	4.14'	3191'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly	7 3/4"	1.53"	4.55'	3196'
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor	7¼"	1.62"	5'	3201'
Drill Collars				
Flush Joint Anchor	5 3/4"	4 3/4"	3'	
Blanked-Off B.T. Running Case	5 3/4"	2.5"	4.5'	3208'
Total Depth				3430'

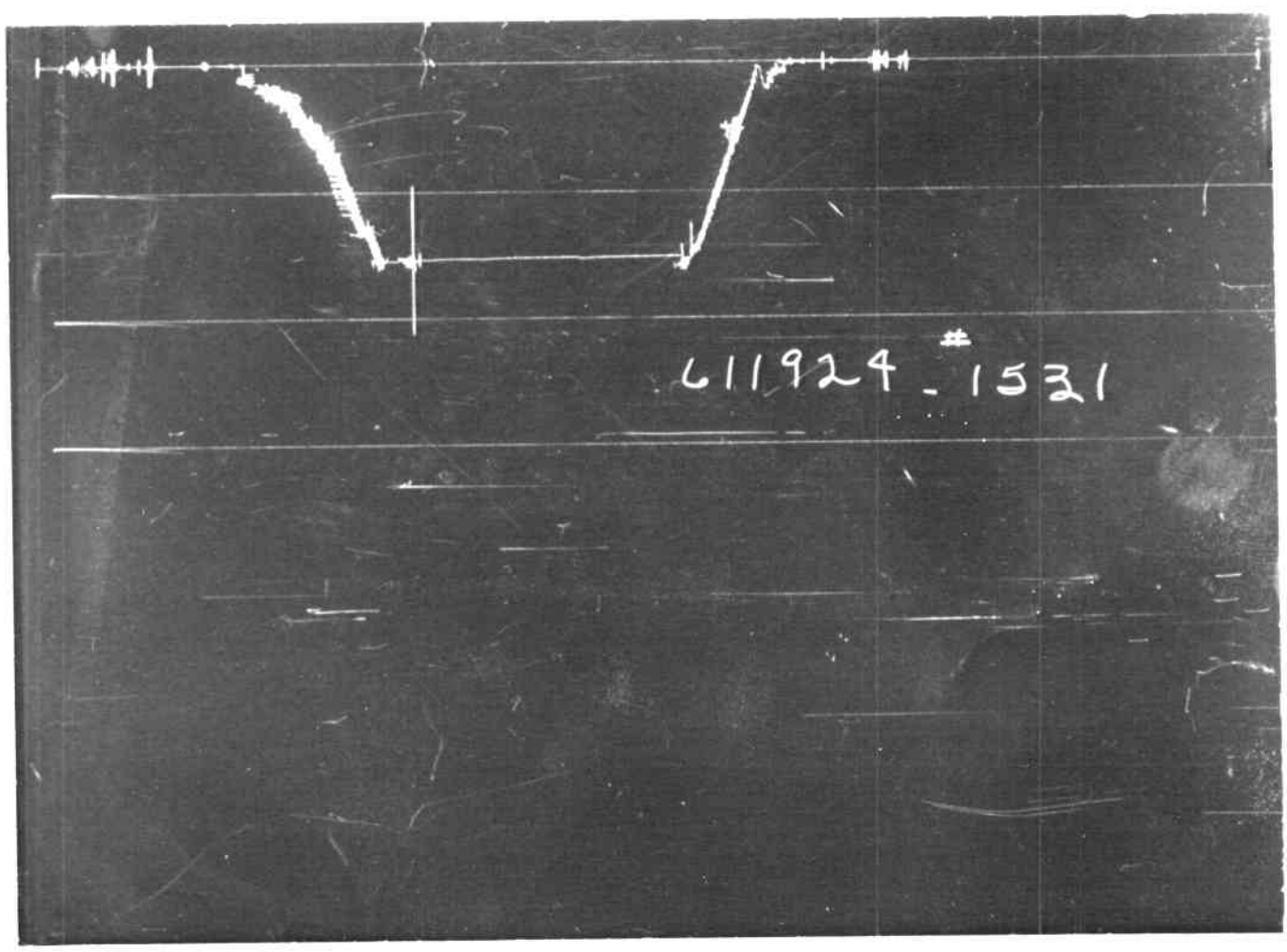
FORM 107—PRINTED IN U.S.A.

EQUIPMENT DATA

LITTLE'S 93977 9M 8/73



Each Horizontal Line Equal to 1000 p.s.i.



PI

Talked To

Ansultz - Ed. Muler 1/14/74

1-9-15

sec 13 T 17 S R 22 E

~~Cutter~~ T. D - 7647 (6 1/8") hole

mist drilled until Entrada

Corbergate - 3174 - tested nothing show in bre of reaccu

Dakota Silt - 6716

Dakota Sand - 6824

Morrison - 6990

Salt Wash - 7360

Entrada - 7583 - Water

9 5/8 / 342' circulate

7" = 3426 / 150 sx

might pull

U. S. G. S.:

(1) 7600 - 20 sx

7350 - 20 sx

7000 - 20 sx

6700 - 20 sx

3425 - 20 sx

if pull 7" - 35 sx @ stub

40 sx @ 350

10 sx / surface

if don't pull 7" - 10 sx in 7" & 10 sx / annulus.

PWB

Form 9-331
(May 1963)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE* (Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

5. LEASE DESIGNATION AND SERIAL NO.: U-10282 (Federal)

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1. OIL WELL ☐ GAS WELL ☐ OTHER: DRY HOLE

7. UNIT AGREEMENT NAME:

2. NAME OF OPERATOR: The Anschutz Corporation

8. FARM OR LEASE NAME: Federal 13

3. ADDRESS OF OPERATOR: 1110 Denver Club Bldg., Denver, Colorado 80202

9. WELL NO.: 1

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface: SW SW¼ Sec. 13 1794' SNL 783' EWL

10. FIELD AND POOL, OR WILDCAT: Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA: 13-17S-22E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.): 6659 KB 6648 GL

12. COUNTY OR PARISH: Grand

13. STATE: Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:				SUBSEQUENT REPORT OF:			
TEST WATER SHUT-OFF	☐	PULL OR ALTER CASING	☐	WATER SHUT-OFF	☐	REPAIRING WELL	☐
FRACTURE TREAT	☐	MULTIPLE COMPLETE	☐	FRACTURE TREATMENT	☐	ALTERING CASING	☐
SHOOT OR ACIDIZE	☐	ABANDON*	XX	SHOOTING OR ACIDIZING	☐	ABANDONMENT*	☐
REPAIR WELL	☐	CHANGE PLANS	☐	(Other)			
(Other)				(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)			

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

This well was drilled to a total depth of 7644' in the Entrada formation. Electric logs were run to total depth; there were no cores. Noncommercial shows of gas were encountered, and it is our intent to plug and abandon the well setting plugs as follows(*):

Cement	Depth
10 sx	Surface
40 sx	350' (base of surface casing)
40 sx	Top of 7" intermediate casing stub
20 sx	3425' (base of intermediate casing)
20 sx	7000'
20 sx	7350'
20 sx	7600'

(*) Verbal instructions to E. R. Mueller from O. R. Daniels.

43-019-30171

APPROVED BY DIVISION OF OIL & GAS CONSERVATION
DATE: JAN 18 1974
BY: C. B. Feight

18. I hereby certify that the foregoing is true and correct

SIGNED: Robert M. Wakefield TITLE: Geologist DATE: 1-15-74

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

THE ANSCHUTZ CORPORATION

1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303—573-5665

January 21, 1974

Mr. Gerald R. Daniels
U. S. Geological Survey
8426 Federal Building
Salt Lake City, Utah 84111

Mr. Cleon B. Feight
Utah Division of Oil & Gas Conservation
1588 West North Temple
Salt Lake City, Utah 84116

Re: Anschutz #1 Federal 915
SW NW Section 13-17S-22E
Grand County, Utah
Federal Lease U-10282

Gentlemen:

Transmitted herewith in triplicate is the WELL COMPLETION REPORT AND LOG (Form 9-330) for the captioned well.

Yours very truly,

THE ANSCHUTZ CORPORATION

Robert M. Wakefield
Geologist

RMW:kcw
Enclosure

Form 9-330
(Rev. 5-63)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICAT (See other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

5. LEASE DESIGNATION AND SERIAL NO.: U-10282

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT AGREEMENT NAME:

8. FARM OR LEASE NAME: Federal 915

9. WELL NO.: 1

10. FIELD AND POOL, OR WILDCAT: wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 13-17S-22E

12. COUNTY OR PARISH: Grand

13. STATE: Utah

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☒ Other

b. TYPE OF COMPLETION: NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other

2. NAME OF OPERATOR: The Anschutz Corporation

3. ADDRESS OF OPERATOR: 1110 Denver Club Bldg., Denver, Co. 80202

4. LOCATION OF WELL (*Report location clearly and in accordance with any State requirements*)*
At surface: SW NW 1794' SNL 783' EWL
At top prod. interval reported below
At total depth

14. PERMIT NO.: 43-019-30071 DATE ISSUED: 7-16-73

15. DATE SPUDDED	16. DATE T.D. REACHED	17. DATE COMPL. (*Ready to prod.*)	18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*	19. ELEV. CASINGHEAD
12-12-73	1-12-74	P & A 1-16-74	6659 KB 6648 GL	---

20. TOTAL DEPTH, MD & TVD	21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY	ROTARY TOOLS	CABLE TOOLS
7644	---	-----	→	0-7644	----

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*: NONE

25. WAS DIRECTIONAL SURVEY MADE: NO

26. TYPE ELECTRIC AND OTHER LOGS RUN: IES-GR density, compensated neutron w/caliper

27. WAS WELL CORED: NO

28. CASING RECORD (*Report all strings set in well*)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9 5/8"	32	342' KB	13 3/4"	200 sx	none
7"	26	3426' KB	8 3/4"	150 sx	1000

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (*Interval, size and number*)

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (*Flowing, gas lift, pumping—size and type of pump*)	WELL STATUS (*Producing or shut-in*)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD →	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE →	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (*Sold, used for fuel, vented, etc.*)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED: Robert M. Wemmerlie TITLE: Geologist DATE: 1-21-74

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.
If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.
Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.
Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.
Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.
Item 29: *"Sacks Cement":* Attached supplemental records for this well should show the details of any multiple-stage cementing and the location of the cementing tool.
Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES:
SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			There were no cores. DST #1 3180-3196 (Castlegate) Open 3 ISI 30 Open 60 FSI 60 Rec: 170' mud cut water, no shows 1st FP 3-8 SIP 684-629 2nd 22-82 HP 1539-1539 Hole drilled w/air 3430-7608

38. GEOLOGIC MARKERS

NAME	TOP MEAS. DEPTH	TOP TRUE VERT. DEPTH
Castlegate	3175	
Mancos	3364	
Dakota silt	6717	
Dakota ss	6840	
Morrison	7060	
Salt Wash	7240	
Summerville	7586	
Entrada	7592	

U.S. GOVERNMENT PRINTING OFFICE: 1993—O-683636

THE ANSCHUTZ CORPORATION

1110 DENVER CLUB BUILDING
518 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303—573-5665

January 22, 1974

Mr. Gerald R. Daniels
U. S. Geological Survey
8426 Federal Bldg.
Salt Lake City, Utah 84111

Mr. Cleon B. Feight
State of Utah
1588 West, North Temple
Salt Lake City, Utah 84116

Re: Anschutz #1 Federal 915
SW NW Sec. 13-17S-22E
Grand County, Utah
Federal Lease U-10282

Gentlemen:

Transmitted herewith is the GEOLOGICAL REPORT AND WELL HISTORY on the captioned well.

Yours very truly,

THE ANSCHUTZ CORPORATION

Robert M. Wakefield
Geologist

RMW:kcw
Enclosure

WELLSITE GEOLOGICAL REPORT

ANSCHUTZ ET AL

NO. 1 FEDERAL 915

SW NW SEC. 13, T 17 S, R 22 E

GRAND COUNTY, UTAH

Edward L. Mueller

By: Edward L. Mueller
Consulting Geologist
Billings, Montana

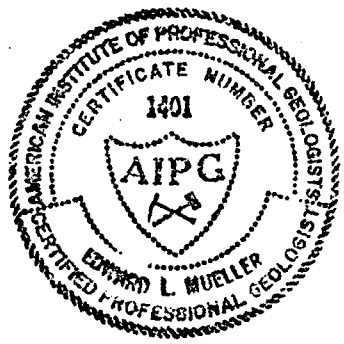


TABLE OF CONTENTS

SUMMARY

WELL NAME: Anschutz et al No. 1 Federal 915

LOCATION: SW NW Section 13, Township 17 South, Range 22 East
Grand County, Utah

ELEVATION: 6648' G.L. 6659' K.B.

SPUD: 9:45 P.M. 12-12-73

CASING: Set 9-5/8" @ 342' with 200 sx, 2% $CaCl_2$,
plug down @ 11:45 P.M. 12-13-73.
Set 7" @ 3426' with 150 sx, 3% $CaCl_2$,
plug down @ 3:00 A.M. 12-25-73.

HOLE SIZE: 12-1/4" surface to 342'.
8-3/4" 342' - 3436' Schlumberger T.D.
6-1/8" 3436' - 7647' Schlumberger T.D.

COMPLETION: P & A 1-15-74

TOTAL DEPTH: 7630' Driller, 7647' Schlumberger, 55' penetration into the Entrada.

DRILLING RIG: Willard Pease Drilling Company - Rig #5
Pusher: Lee Pease

MUD LOGGING: Core Laboratories, one man unit: Jim Bullock, Engineer.

GEOLOGIST: E. L. Mueller

SAMPLES: 30' samples from surface to 6500'
10' samples from 6500' to T.D.
Wet cut delivered to American Stratigraphic Company, Denver, Colorado. Dry cut to Anschutz, Denver.

MUD PROGRAM: Mud, surface to 342'
Mist, 342' - 2782'
Mud, 2782' - 3436'
Air, 3436' - 6946'
Mist, 6946' - 7600'
Mud, 7600' - 7630 Drilling Depth

LOGGING PROGRAM: Schlumberger

Run #1 IES 344' - 3435'
FDC - GR 700' - 924'; 2700' - 3435'

Run #2 IES 3424' - 7643'
FDC - CNL - GR 6138' - 7646'

CORES: None

DST'S: DST #1 3180' - 3196' (straddle packer test of Castlegate after logging.)

Open 3 min. - weak blow
SI 30 min. - no blow
Open 60 min.- weak blow
SI 60 min. - no blow

Recovered 170' slightly mud cut fresh water

IFP 2.8# FFP 8.3#
30 min. SIP 684#

2nd IFP 22# FFP 82#
60 min. FSIP 629# Temp. 95°

IHP 1539# FHP 1539#

SAMPLER RECOVERY

0# Pressure
1250 cc fresh water
1000 cc mud

SHOWS: We had a 15' gas flare @ 6205', died in 2½ hours, and an 18" gas flare @ 6675', died in 1 hour. These shows were in the Mancos Shale section, not associated with reservoir rock, and probably are due to minor fracturing. No significant shows were observed either in gas logging or by flare. The objective horizons were drilled with air or mist except for the bottom 30' of Entrada penetration which produced water and necessitated mudding up.

REMARKS: Initial log calculations (see log analysis on IES Log) indicated possible gas production in a number of zones; however, these zones were drilled with air or mist, and failed to reveal themselves. A recalculation of the log is shown below.

CHRONOLOGICAL HISTORY

Anschutz et al No. 1 Federal 915
SW NW Section 13, T 17 S, R 22 E,
Grand County, Utah

12-12-73	Spud @ 9:45 P.M. with 12-1/4" bit, drilling @ 50' @ 12:00 P.M.
12-13-73	Drilled 12-1/4" hole to 342'. Set 9-5/8" casing @ 342' with 200 sax, 2% $CaCl_2$. Plug down at 11:45 P.M. WOC @ 12:00 P.M.
12-14-73	Nippling up and WOC @ 12:00 P.M.
12-15-73	Drilled out from under surface casing @ 8:30 A.M. with 8-3/4" bit, with air. Drilling with mist below 478'. Drilling @ 788' with mist @ 12:00 P.M.
12-16-73	Drilling with mist @ 1467' @ 12:00 P.M.
12-17-73	Drilling with mist @ 2071' @ 12:00 P.M.
12-18-73	Drilling with mist @ 2652' @ 12:00 P.M.
12-19-73	Mudded up @ 2782', drilling with mud @ 2855' @ 12:00 P.M.
12-20-73	Drilling with mud @ 3073' @ 12:00 P.M.
12-21-73	Drilling with mud @ 3203' @ 12:00 P.M.
12-22-73	Trip @ 3321' @ 12:00 P.M.
12-23-73	Total Depth 3430' - SLM - logged, Schlumberger depth 3436'. Completed logging @ 12:00 P.M.
12-24-73	Sent Telecopies; Ran DST #1, straddle packer 3180' - 96', recovered water, running 7" casing @ 12:00 P.M.
12-25-73	Set 7" @ 3426' with 150 sax, 3% $CaCl_2$, plug down @ 3:00 A.M. WOC @ 12:00 P.M.
12-26-73	Nippled up, going into hole with 6-1/8" bit @ 12:00 P.M.
12-27-73	Drilling with air @ 3518' @ 12:00 P.M.
12-28-73	Drilling with air @ 4011' @ 12:00 P.M.

12-29-73	Drilling with air @ 4378' @ 12:00 P.M.
12-30-73	Drilling with air @ 4583' @ 12:00 P.M.
12-31-73	Trouble with crooked hole, running percussion bit, etc. Drilling with air @ 4740' @ 12:00 P.M.
1-1-74	Drilling with air @ 4967' @ 12:00 P.M.
1-2-74	Drilling with air @ 5127' @ 12:00 P.M.
1-3-74	Drilling with air @ 5290' @ 12:00 P.M.
1-4-74	Drilling with air @ 5511' @ 12:00 P.M.
1-5-74	Drilling with air @ 5817' @ 12:00 P.M.
1-6-74	Drilling with air @ 6179' @ 12:00 P.M.
1-7-74	Gas show, 15' flare @ 6205', died in 2-1/2 hours; drilling @ 6536' @ 12:00 P.M.
1-8-74	Trace gas @ 6675', 18" flare, died in 1 hour.
1-9-74	Quit dusting @ 6946', drilling with light mist @ 7113' @ 12:00 P.M.
1-10-74	Drilling with mist @ 7350' @ 12:00 P.M.
1-11-74	Drilling with mist @ 7590' @ 12:00 P.M.
1-12-74	Going into hole to drill with mud @ 7600' @ 12:00 P.M.
1-13-74	Sending telecopies of logs @ 12:00 P.M.
1-14-74	Pulling 7" casing (1,000') Preparing to plug @ 12:00 P.M.
1-15-74	Plugged @ 6:45 P.M.
	Rig Released @ 12:00 P.M.

SCHLUMBERGER LOG ANALYSIS

Depth	Rw	Rt	FDC % Porosity	% Water	Remarks
7626-40	.045	2	19%	70%	Gas & Water
7615-19	.045	2	22%	60%	Gas & Water
7605-11	.045	11	12%	46%	Gas & Water
7367-70	.045	60	8%	32%	Gas & Water
7370-75	.045	250	9%	15%	Gas & Water
7270-84	.045	40	11%	28%	Gas & Water
7264-96	.045	27	12%	29%	Gas & Water
7296-7300	.045	45	10%	28%	Gas & Water
6943-53	.05	4	19%	50%	Gas & Water
6843-52	.05	100	11%	17%	Gas & Water

Later, a recalculated Rw produced the following analysis:

Depth	% Porosity	Rw	% Sw	Permeability	Production
6843-52	11%	.13	32	0.1 m.d.	Gas
6943-50	19%	.13	67	0.5	Gas & Water
6950-56	Washout				
7270-84	11%	.13	49	0.05	Tight
7284-96	13%	.13	58	0.09	Tight
7296-7300	10	.13	52	0.025	Tight
7367-70	8%	.13	66	0.01	Tight
7370-75	9%	.13	39	0.025	Tight
7605-11	12%	.13	100	-	Water
7615-19	22%	.13	100	-	Water
7626-40	19%	.13	100	-	Water
7644-48	11%	.13	100	-	Water

Production predicated on permeability greater than 0.1 m.d.

LOG ANALYSIS ON RUN NO. 1

Depth	% Porosity	% Water	Prob. Production	Rw
732-42	22%	100%	Water	6.0
752-67	26%	95%	Water	6.0
774-92	23-24%	100%	Water	6.0
843-66	26%	95%	Water	6.0
3186-96	11-13%	70%	Water	0.21
3197-3204	15%	78%	Water	0.21
3218-26	12-14%	90%	Water	0.21

FORMATION TOPS FROM IES LOG

Mesaverde	1159'	(+ 5500)
Buck Tongue Shale	2896'	(+ 3763)
Castlegate Sandstone	3174'	(+ 3585)
Mancos Shale	3227'	(+ 3432)
Emory Sandstone	-	- -
Bluegate Sandstone	4508'	(+ 2151) ?
Dakota Siltstone	6717'	(- 58)
Dakota Sandstone	6786'	(- 127)
Morrison	6992'	(- 333)
Salt Wash	7360'	(- 701) ?
Entrada	7583'	(- 924)

Total Depth Schlumberger 7630' Driller 7647' Schlumber

Elevation 6659' K.B.

PLUGGING DATA

Plugged as follows per phone instructions from Paul Burchell, Utah Division of Oil & Gas, and Gerald Daniels, United States Geological Survey.

10 sx @ Surface
40 sx @ 350' - top surface casing
20 sx @ 1000' - stub on 7" casing
40 sx @ 3426' - base of 7" casing
20 sx @ 6716' - above Dakota Siltstone
20 sx @ 6990' - above Morrison
20 sx @ 7360' - above Salt Wash
20 sx @ 7583' - above Entrada

7" Casing cut off @ 1000' and pulled; rig released @ 12:00 P.M. 1-15-74.

BIT RECORD

Bit No.	Make	Size	Type	In	Out	Hours	Remarks
1	HTC	12-1/4"	OSCG	0'	342'	16-1/4	
2	HTC	8-3/4"	OWV	342'	1128'	23	
3	Reed	8-3/4"	FS2	1128'	2782'	60-1/2	
4	HTC	8-3/4"	ODV	2782'	2924'	16	
5	HTC	8-3/4"	OSCIG	2924'	3153'	16-3/4	
6	HTC	8-3/4"	OSCIG	3153'	3200'	8-3/4	
7	HTC	8-3/4"	OSCIG	3200'	3245'	7	
8	HTC	8-3/4"	OWC	3245'	3321'	10-3/4	
9	HTC	8-3/4"	OWV	3321'	3435'	10-3/4	
10	Smith	6-1/8"	C2	3435'	3498'	2	
11	Smith	6-1/8"	F5	3498'	4416'	47-1/4	
12	Sec	6-1/8"	S88	4416'	4653'	21	
13	HTC	6-1/8"	OWV	4653'	4772'	7-3/4	Drlg./air hammer
14	HTC	6-1/8"	OWV	4772'	4956'	10-1/2	"
15	Smith	6-1/8"	C2 (RR)	4956'	5039'	10-3/4	"
16	Sec	6-1/8"	S88 (RR)	5039'	5126'	8	"
17	Sec	6-1/8"	S88	5126'	5395'	24-1/4	"
18	HTC	6-1/8"	OWV	5395'	5702'	16-1/4	"
19	HTC	6-1/8"	OWC	5702'	6024'	18-1/4	"
20	HTC	6-1/8"	OWC	6024'	6398'	15-3/4	"
21	HTC	6-1/8"	W7	6398'	6767'	16-3/4	"
22	Sec	6-1/8"	S88	6767'	7176'	20-1/4	
23	Sec	6-1/8"	S88	7176'	7417'	15-1/4	
24	Sec	6-1/8"	S88	7417'	7600'	10-1/2	
25	HTC	6-1/8"	CW7	7600'	7630'	4-1/2	

SLM @ Total Depth 7636'

VERTICAL DEVIATIONS

1° @ 100'
½° @ 200'
½° @ 310'
¼° @ 665'
¼° @ 835'
¼° @ 1050'
1° @ 1220'
1-1/4° @ 1500'
1° @ 1650'
1-1/2° @ 1800'
1-1/2° @ 1950'
1-1/2° @ 2120'
1-3/4° @ 2300'
1-3/4° @ 2450'
2-1/4° @ 2600'
3-1/4° @ 2750'
2-1/2° @ 2900'
2-1/2° @ 3050'
2-1/4° @ 3190'
2-3/4° @ 3422'
3-1/4° @ 3550'
4-1/4° @ 3700'
5° @ 3810'
4-3/4° @ 3960'
5° @ 4100'
5-1/2° @ 4250'
6° @ 4285'
6-1/4° @ 4385'
6° @ 4485'
7-1/2° @ 4580'
7-3/4° @ 4616'
8-1/4° @ 4645'
8-1/4° @ 4675'
7-3/4° @ 4705'
7-1/2° @ 4735'
7-3/4° @ 4800'
7-3/4° @ 4860'
7-3/4° @ 4920'
8° @ 4986'
9° @ 5080'
9° @ 5144'
10° @ 5170'
9° @ 5200'
8-1/4° @ 5295'
8° @ 5360'
7-3/4° @ 5432'
7-3/4° @ 5462'
8° @ 5555'
7-3/4° @ 5615'
7-3/4° @ 5869'
8° @ 6024'
8° @ 6179'
7-3/4° @ 6274'
6-1/2° @ 6390'
6° @ 6480'
5-1/4° @ 6613'
5° @ 6700'

ANSCHUTZ ET AL NO. 1 FEDERAL 915

SAMPLES NOT LAGGED

Drilling with mud.

0-30	Shale, red and gray green, subwaxy, trace Sandstone., white and red, fine to medium grained, clay filled.
30-60	a.a.
60-90	40% Shale, a.a., 60% Sandstone, white, fine to medium grained, clay filled, pyritic in part. Slightly calcareous.
90-120	Trace Shale, red, Sandstone, white to tan, fine to medium grains, calcareous cement in part and clay filled in part, pink to black inclusions, slightly Pyritic in part.
120-150	50% Shale, red and gray green, 50% Sandstone, a.a.
150-180	10% Shale, a.a., 90% Sandstone, a.a., tite, salt & pepper in part.
180-210	30% Shale, a.a. 70% Sandstone, a.a.
210-40	a.a.
40-70	a.a., Sandstone becoming very fine to fine grained, tite.
270-300	60% Shale, 40% Sandstone, a.a.
300-30	a.a.
	9-5/8" Casing set at 342'.

Drilling with air.

340-70	Very fine gray powder, approximately 40% loose sand, fine to medium grained.
370-400	a.a.
400-30	Very fine, a.a., color change to light pink.
30-60	Light gray powder with about 60% loose fine to medium grained Sand. Trace red Shale.

Drilling with mist below 478'.

60-90	30% Shale, red and gray green, 20% Sandstone, tan, fine to medium grained, salt & pepper, tite, calcareous. 50% Dolomite, tan to gray, dense, becoming Sandy in part.
490-520	10% Shale, red, 90% Dolomite, reddish tan to tan, dense to fine crystalline, Silty to Shaly in part, trace Sandy.
20-50	Shale, red, blocky, slightly Silty.
50-80	a.a.
580-610	a.a.
610-40	Shale, red and green, Silty in part.
40-70	Sand, white, fine to medium grained, loose, poor to fairly well rounded, trace dark grains.
670-700	60% Shale, gray green to trace red. Silty in part. 40% Dolomite, tan, dense to fine crystalline, Silty to Sandy in part.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

700-30	Shale, dark greenish gray.
30-60	20% Shale, a.a., 80% Sandstone, white to tan, medium grained, calcareous cement, fairly tite.
60-90	a.a.
790-810	50% Shale, a.a., Silty in part. 50% Dolomite, tan to gray, dense to fine crystalline, Shaly to Silty.
10-40	40% Shale, 60% Dolomite, a.a.
40-70	Sand, white-pink-yellow, unconsolidated, fine to medium grained, some black grains.
870-900	Sand, a.a., trace Shale, brown.
900-30	Shale, brownish red to green, subwaxy, trace Dolomite, tan, dense.
30-60	Trace shale, variegated, Sand, fine to medium grained, unconsolidated, mostly clear grains, frosted in part.
60-90	50% Sand, a.a., 50% Shale, red to mustard to variegated, subwaxy in part.
990-1020	10% Shale, a.a., 90% loose Sand, a.a.
20-50	Trace Shale, a.a., 99% Sand, a.a.
40-70	90% Shale, red to green, trace Shale varicolored, subwaxy. 10% Dolomite, tan, dense, fine crystalline, Sandy in part.
1070-1100	a.a., plus trace Gypsum, white, in red Shale.
1100-30	Shale, red and green, subwaxy.
30-60	Sandstone, white to light gray, medium to coarse grained, very salt & peppery, clay filled in part, slightly calcareous in part.
60-90	40% Sandstone, a.a., trace red and green Shale, a.a. Trace Pyrite, 5% Chert, tan to milky-weathered. 55% Shale, medium dark gray.
1190-1220	5% Chert, a.a. Trace Pyrite. 25% Shale, varicolored, subwaxy, 70% Sand, loose, medium to coarse to very coarse grained.
20-50	Shale, red and green, subwaxy plus Shale (trace) dark gray, Silty. Trace Dolomite, tan, fine crystalline, Sandy, very fine grained.
50-80	a.a., dark gray Shale increasing to 40% of Sample.
1280-1310	Sandstone, white to tan, fine to medium grained, Calcareous, mostly unconsolidated, trace red and green subwaxy Shale.
10-40	Sandstone, a.a., trace Shale, green, subwaxy.
40-70	50% Shale, gray green, subwaxy in part. 50% Sandstone, tan, fine crystalline, very Dolomitic, grading to Dolomite, tan, fine crystalline, very Sandy, very salt & peppery.
1370-1400	Sandstone, white, medium to coarse grains, salt & pepper, trace Pyrite, mostly unconsolidated.
1400-30	Sandstone, light gray to white, fine to medium grained, salt and pepper, slightly Shaly in part, Shale fragments included, mostly unconsolidated, trace Shale, medium and dark gray.
30-60	10% Sandstone, light gray, fine grained, grading to Siltstone. 90% Shale, medium gray, finely micaceous in part.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

1460-90	80% Sandstone, a.a., mostly unconsolidated. 20% Shale, red and greenish gray, subwaxy.
1490-1520	50% Sandstone, a.a., 10% Shale, a.a., 40% Shale, medium to dark gray.
20-50	a.a.
50-80	Sandstone, white to light gray, fine to medium to coarse grained, mostly unconsolidated. Trace varicolored subwaxy Shale.
1580-1610	70% Sandstone, medium gray, fine to medium grained, salt & pepper in part, Shaly, grading to Siltstone. 30% Shale, medium to dark gray, slightly Micaceous in part.
10-40	a.a.
40-70	a.a.
1670-1700	a.a.
1700-30	60% Sandstone, 40% Shale, a.a.
30-60	90% Sandstone, a.a., 10% Shale, a.a.
60-90	50% Sandstone, a.a., 50% Shale, a.a.
1790-1820	80% Sandstone, a.a., 20% Shale, a.a.
20-50	Shale, dark gray, finely Micaceous, plus Shale, medium greenish gray, subwaxy in part. Trace Sandstone, a.a.
50-80	50% Sandstone, light gray, fine to medium grained, salt & pepper, clay filled, grading to Siltstone in part. 50% Shale, a.a.
1880-1910	a.a.
10-40	60% Sandstone, a.a., 40% Shale, a.a.
40-70	30% Sandstone, a.a., 70% Shale, a.a.
1970-2000	Sandstone, white, fine to medium grained, salt & pepper, slightly Calcareous, trace Coal gragments. Clay filled in part, mostly unconsolidated. Trace Shale, a.a.
2000-30	20% Sandstone, a.a., 80% Shale, medium to dark gray, slightly Silty in part, subwaxy in part.
30-60	50% Sandstone, becoming Siltstone in part. 50% Shale, a.a., plus reddish brown, green, pale violet and mustard colored subwaxy Shale.
60-90	40% Sandstone, white, medium to coarse grained, salt & pepper, clay filled, trace Coal imbedded. Trace Siltstone, gray. 60% Shale, gray, slightly Silty to subwaxy.
2090-2110	60% Sandstone, a.a., 40% Shale, gray to varicolored, subwaxy.
10-40	a.a., trace Pyrite.
40-70	40% Sandstone, gray, fine grained, Shaly. 60% Shale, a.a.
2170-2200	30% Sandstone, a.a., 70% Shale, mostly medium to dark gray, Silty, some varicolored a.a.
2200-30	50% Sandstone, a.a., 50% Shale, a.a., one fragment of Coal.
30-60	20% Sandstone, a.a., 80% Shale, a.a.
60-90	30% Sandstone, a.a., 70% Shale, a.a., variegated and subwaxy in part.
2290-2320	50% Sandstone, light gray, fine grained, salt & pepper, tite, Clay filled. 50% Shale, medium to dark gray, finely Micaceous.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

20-50	30% Sandstone, a.a. 70% Shale, a.a.
50-80	50% Sandstone, fine to medium grained, a.a., Calcareous. 50% Shale, a.a.
2380-2410	a.a.
10-40	a.a., trace Dolomite, tan, dense.
40-70	Trace Sandstone, a.a. Shale, a.a., trace Gilsonite.
2470-2500	30% Gilsonite. 30% Sandstone, white to grayish tan, fine grained, in part stained with Gilsonite. 40% Shale, a.a.
2500-30	20% Gilsonite. 10% Sandstone, a.a. 70% Shale, a.a.
30-60	80% Sandstone, white, very fine to fine grained, tite. Slightly dead oil stained on bedding planes. 10% Gilsonite. 10% Shale, dark gray with dead oil stain.
60-90	a.a., Sandstone, fine to medium grained, mostly unconsolidated.
2590-2620	60% Sandstone, a.a., with trace dead stain. 40% Shale, dark gray to black with trace dead oil.
20-50	40% Sandstone, a.a., 60% Shale, a.a., trace Gilsonite.
50-80	10% Sandstone, a.a., 80% Shale, a.a., 10% Gilsonite.
2680-2710	10% Sandstone, a.a., 70% Shale, a.a., 20% Gilsonite.
10-40	40% Sandstone, a.a., 50% Shale, a.a., 10% Gilsonite.
40-70	Sandstone, white, very fine to medium grained, salt & pepper, slightly Calcareous, unconsolidated.
2770-2800	Sandstone, white to light gray, fine to medium to coarse grained, clay filled, salt & pepper, very slightly Glauconitic, tite.

Mudded up at 2782'.

2800-30	Sandstone, fine to medium grained a.a.
30-60	Sandstone, a.a.
60-90	Sandstone, a.a., trace Gilsonite.
2890-2920	Sandstone, a.a., plus 15% Shale, brownish black, Silty.
20-50	Shale, a.a.
50-80	Shale, a.a.
2980-3010	Shale, a.a., quite Silty.
10-40	Shale, a.a.
40-70	Shale, a.a.
3070-3100	Shale, a.a.
3100-30	Shale, a.a., plus trace lam tan Limestone and Sandstone, very fine grained.
30-50	Shale, a.a., plus 80% Siltstone, brownish black.
50-60	Siltstone, brownish black.
60-70	Shale, dark gray, grading to Siltstone, brownish black, trace Gilsonite, trace Limestone, brown, fine crystalline, Sandy, trace Pyrite.
70-80	Shale, and Siltstone, a.a., plus 50% Sandstone, fine to medium grained, salt & pepper, slightly Glauconitic. Scattered fluores. wet, no fluorescence dry, no stain.
80-90	Sandstone, a.a., trace Sandstone with questionable stain, fluor. a.a.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

3190-3200	Sandstone, a.a., becoming fine grained, clay filled, tite;
3200-30	50% Sandstone, a.a., 50% Dolomite, brown, dense to fine crystalline. Sandstone has bright fluorescence, wet, decreases when dry, cuts slowly, looks like high gravity stain in very tite Sandstone. No gas kick on hot wire or chromatograph. No visible stain or Porosity.
30-50	Sandstone, a.a., white, fine grained, grading to Siltstone, dark gray. 30% Shale, dark gray to black, Silty.
50-60	Trace Sandstone, a.a. 70% Siltstone, dark gray. 30% Shale, dark brownish gray, trace bright fluorescence, a.a., plus scattered golden (mineral ?) fluorescence.
3260-70	70% Siltstone, light to dark gray. 30% Shale, dark brownish gray to black, Silty.
70-80	Siltstone, medium gray, trace Shale, dark gray.
80-90	Siltstone, a.a., no fluorescence.
3290-3300	90% Siltstone, a.a., 10% Shale, dark gray, Silty.
3300-10	a.a.
10-20	a.a.
20-30	a.a.
30-40	a.a., Siltstone becoming light gray in part.
40-50	50% Siltstone, a.a., 50% Shale, brownish black, Silty.
50-60	30% Siltstone, a.a., 70% Shale, a.a.
60-70	10% Siltstone, a.a., 90% Shale, a.a.
3370-3400	a.a.
3400-30	Shale, brownish black to black, slightly Silty.
	Set 7" Casing @ 3426' with 150 sax. Drilled out with 6-1/8" bit with air - dusting.
3430-70	Shale, medium gray powder, very fine.
3470-3500	a.a.
3500-30	a.a.
30-60	a.a.
60-90	a.a.
3590-3620	a.a.
20-50	a.a.
50-80	a.a.
3680-3710	a.a.
10-40	a.a.
40-70	a.a.
3770-3800	a.a.
3800-30	a.a.
30-60	a.a.
60-90	a.a.
3890-3920	a.a. (Dust)
20-50	a.a.
50-80	a.a.
3980-4010	a.a.
4010-40	a.a.
40-70	a.a.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

4070-4100	a.a., Silty.
4100-30	a.a., very fine - air drilled - samples.
30-60	a.a., Silty.
60-90	a.a.
4190-4220	a.a.
20-50	Shale, dark gray.
50-80	a.a., Silty in part.
4280-4310	a.a.
10-40	Sand, tan, loose, fine grained.
40-70	Shale, and very fine grained Sand. Sample is very fine.
4370-4400	a.a.
4400-30	a.a.
30-60	Shale, a.a., Silty in part.
60-90	a.a.
4490-4520	a.a. (Dust)
20-50	a.a.
50-80	a.a.
4580-4610	a.a.
10-40	a.a.
40-70	Shale, dark gray to black - good Sample. Not as fine as samples above.
4670-4700	Shale, a.a., becoming finer and lighter dust.
4700-30	a.a.
30-60	a.a.
60-90	a.a.
4790-4820	Shale, a.a., very fine powder.
20-50	a.a.
50-80	a.a.
4880-4910	a.a.
4910-40	a.a.
40-70	a.a.
4970-5000	a.a.
5000-30	a.a.
30-60	Shale, dark gray to black, very good sample.
60-90	a.a.
5090-5120	a.a.
20-50	a.a.
50-80	a.a., sample very fine dust.
5180-5210	a.a.
10-40	a.a.
40-70	a.a.
5270-5300	a.a.
5300-30	a.a.
30-60	a.a.
60-90	a.a.
5390-5420	a.a.
20-50	a.a.
50-80	a.a., very fine dust.
5480-5510	a.a.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

5510-40	a.a.
40-70	a.a.
5570-5600	a.a.
5600-30	a.a.
30-60	a.a.
60-90	a.a.
5690-5720	a.a.
5720-50	a.a., dust, very fine, some dark gray Shale.
50-80	a.a.
5780-5810	a.a.
10-40	a.a.
40-70	a.a.
5870-5900	a.a.
5900-30	a.a.
30-60	a.a.
60-90	a.a.
5990-6020	a.a.
20-50	a.a.
50-80	a.a.
6080-6110	a.a.
10-40	a.a.
40-70	a.a.
6170-6200	a.a. Sample has slight odor.
6200-30	Dust and Shale, a.a., dark gray.
30-60	a.a.
60-90	a.a.
6290-6320	a.a.
20-50	a.a.
50-80	a.a.
6380-6410	a.a.
10-40	a.a.
40-70	a.a.
6470-6500	a.a.
6500-10	a.a., good sample.
10-20	a.a., good sample.
20-30	a.a., good sample.
30-40	a.a., dark gray.
40-50	a.a.
50-60	a.a.
6560-70	a.a.
70-80	a.a.
80-90	Shale, a.a., trace Siltstone, white.
6590-6600	Shale, a.a., trace Siltstone, white to tan.
6600-10	a.a.
10-20	a.a.
20-30	a.a., color getting lighter due to increasing Siltstone to approximately (?) 50% (?)
30-40	a.a.
40-50	a.a., sample very fine.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

6650-60	a.a.
60-70	a.a., light to medium gray dust, white, Siltstone.
70-80	Shale, a.a., light gray Siltstone, very fine dust.
80-90	a.a.
6690-6700	a.a.
6700-10	Shale, dark gray, plus Sand-Siltstone grains, very fine grained.
10-20	a.a.
20-30	a.a.
30-40	a.a., slightly petroliferous odor.
40-50	a.a., decreasing odor.
50-60	Medium gray dust, very fine.
60-70	Shale, dark gray, some coarse grained fragments, mostly dust.
70-80	a.a.
80-90	a.a.
6790-6800	a.a., trace odor, dust becoming light gray.
6800-10	Dust - light gray, very fine.
10-20	Light gray dust, a.a.
20-30	a.a.
30-40	a.a.
40-50	a.a., plus trace Sandstone, white, fine to medium grained.
50-60	Dust and Shale, medium gray, darker than above.
60-70	a.a.
6870-80	a.a., Shale and dust.
80-90	Shale and dust, a.a., trace Sand, medium to coarse grained.
6890-6900	Shale, and dust, a.a., trace Sand, fine grained.
6900-10	Shale, and dust, a.a.
10-20	Shale, and dust, a.a., trace Sand, very fine to fine grained.
20-30	50% dust, a.a., 50% Sand, loose, fine to medium grained, well rounded.
30-40	a.a.
40-50	Sample drilled with mist (from below 4046'.) 40% Shale, black, 60% Sand, loose, medium grained.
50-60	Siltstone, greenish white, Bentonitic, Pyritic.
60-70	Siltstone, a.a., plus trace Shale, medium brownish gray.
70-80	a.a.
80-90	Siltstone, a.a., plus 20% Sand, loose, medium grained.
6990-7000	40% Shale, greenish white, grading to Siltstone. 30% Sandstone, loose, medium grained, well rounded, frosted, trace Pyrite. 30% Shale, dull purplish-reddish brown, Silty in part.
7000-10	a.a.
10-20	30% Siltstone, a.a., 10% Sandstone, a.a., 60% Shale, a.a.
20-30	a.a.
30-40	a.a., trace red Chert.
40-50	20% Siltstone, grading to greenish white Shale, 80% Shale, gray to brownish red, Silty
50-60	a.a.
60-70	a.a., plus trace Shale, pink, Dolomitic, looks like Dolomite.
70-80	a.a., plus 20% Dolomite - pink Shale a.a., slightly Siliceous.
80-90	Shale, a.a., plus 40% Dolomite - pink Shale, a.a.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

7090-7100	40% Shale, a.a., 60% Dolomite - pink Shale, a.a.
7100-10	a.a.
10-20	Trace Anhydrite, white, trace Chert, white, chalky in part; 40% Dolomite, white to pink to red, dense, Shaly, Siliceous, 60% Shale, pink-red-brown red.
20-30	20% white Shaly Siltstone grading to Dolomite. 50% Dolomite, white-pink-red, dense to fine crystalline; 30% Shale, red.
30-40	30% white Anhydrite grading to Dolomite, dense; 20% Dolomite, pink, dense, Shaly. 50% Shale, a.a.
40-50	20% Anhydrite, a.a., trace Chert, white, milky-chalky; 80% Shale, red, Silty to Sandy.
50-60	10% Anhydrite; 40% Dolomite, a.a., 50% Shale, a.a.
60-70	a.a., plus trace Sand, pink, coarse grained with Anhydrite cement.
70-80	a.a.
80-90	Trace Anhydrite, white, plus Shale, red, plus (80% Shale, dark gray - cave after trip.)
7190-7200	Shale, red-green to pale green, Sandy in part. Subwaxy in part.
7200-10	50% Shale, green, subwaxy, slightly Dolomitic. 50% Shale, red, slightly Micaceous to Silty.
10-20	80% Shale, pale greenish white to green, a.a. 20% Shale, red, a.a.
20-30	90% Shale, green, a.a. 10% Shale, red, a.a.
30-40	50% Shale, green, a.a., trace Shale, red, a.a.; 50% Shale, white, fine to medium grained, white clay filled, mostly loose, angular to subrounded.
40-50	80% Shale, a.a., 20% Sandstone, a.a., well cemented,clay filled.
7250-60	70% green Shale, a.a., Sandy in part. 30% Sandstone, white, fine to medium grained, clay filled.
60-70	30% Shale, green, a.a. 70% Sandstone, a.a., mostly loose grains.
70-80	a.a.
80-90	80% Shale, green, a.a. 20% Sandstone, a.a.
7290-7300	50% Shale, light green, waxy. 50% Sandstone, white, medium to coarse grained, clay filled in part. Mostly loose.
7300-10	30% Shale, a.a. 70% Sand, a.a.
10-20	80% Shale, red and green. 20% Sandstone, a.a.
20-30	a.a.
30-40	20% Dolomite, grayish tan, dense. 70% Shale, red and green. 10% Sand, a.a.
40-50	a.a.
50-60	a.a.
60-70	10% Shale, a.a.; 90% Sandstone, fine to medium grained, white, loose, no show.
70-80	60% Shale, 40% Sand, a.a.
80-90	a.a.
7390-7400	Shale, red, trace Shale, green. Trace loose Sand, medium grained.
7400-10	Shale, 80% red, 20% green, trace Sandstone, fine grained, very well cemented with Anhydrite (?), tite.

GEOLOGICAL REPORT - SAMPLE DESCRIPTIONS

7410-20	Shale, 60% red, 20% green. 20% Sandstone, fine to medium grained, well cemented, tite.
20-30	Shale, 40% red, 60% green, subwaxy in part.
7430-40	Shale, 80% green. 10% red. 10% Sandstone, a.a.
40-50	Shale, green, plus trace Shale, red, a.a., trace Sandstone, a.a.
50-60	Shale, grayish green to green, subwaxy. Trace Dolomite, gray, dense, trace Sandstone, a.a.
60-70	Shale, a.a. Trace Dolomite, a.a.
70-80	Shale, 80% green, Silty in part. 20% red.
80-90	Shale, a.a., 70% green, 30% red.
7490-7500	30% Shale, red, a.a., 70% Shale, green, grading to Limestone, greenish buff, dense to fine crystalline.
7500-10	a.a.
10-20	30% Shale, red, a.a., 70% Limestone, green to buff, dense to fine crystalline, grading to Dolomite, Shaly.
20-30	20% Shale, red, a.a., 70% Limestone, a.a., 10% Sand, loose, fine to medium coarse grained, frosted in part, trace varnish.
30-40	10% Shale, red. 90% Limestone, cream-gray-green; dense to fine crystalline, Sandy in part - fine to medium grained.
40-50	40% Shale, red, 60% Limestone, a.a., trace loose Sandstone, medium grained.
50-60	60% Shale, red a.a., 40% Limestone, a.a.
60-70	95% Shale, brownish red a.a., 5% Limestone, a.a.
70-80	Shale, a.a., plus trace Sandstone, white, fine to medium grained, tite, clay filled, well cemented.
80-90	Sandstone, white-pink, a.a., plus loose Sand, medium grained, frosted and varnished - 80% Shale, a.a.
7590-7600	Sandstone, a.a.

Drilling with mud.

7500-10	Sandstone, a.a. Much cave.
10-20	Sandstone, a.a., much loose Sand.
20-30	Sandstone, a.a., much loose Sand.

Form 9-331
Dec. 1973

Form Approved.
Budget Bureau No. 42-R1424

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well ☐ gas well ☒ other

2. NAME OF OPERATOR (Former Operator-The Pacific Transmission Supply Co. Anschutz Corp.)

3. ADDRESS OF OPERATOR
85 South 200 East, Vernal, UT 84078

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1794' FNL, 783' FWL, SW¼ NW¼ Sec. 13,
AT TOP PROD. INTERVAL: T17S, R22E, Grand Co., UT
AT TOTAL DEPTH:

5. LEASE
U-10282

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Federal 915

9. WELL NO.
1

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Section 13, T17S, R22E

12. COUNTY OR PARISH: Grand | 13. STATE: Utah

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)
6648 GL, 6659 KB

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF	☐	☐
FRACTURE TREAT	☐	☐
SHOOT OR ACIDIZE	☐	☐
REPAIR WELL	☐	☐
PULL OR ALTER CASING	☐	☐
MULTIPLE COMPLETE	☐	☐
CHANGE ZONES	☐	☐
ABANDON*	☐	☒
(other)		

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Well drilled to total depth 7644' in the Entrada formation. Electric logging operations were conducted. No commercial shows of gas were indicated on logs or encountered while drilling. Abandonment cement plugs were set as follows:

Plug 1	20 sacks at 7600'.
Plug 2	20 sacks at 7350'.
Plug 3	20 sacks at 7000'.
Plug 4	20 sacks at 3425' (base of 7" intermediate casing).
Plug 5	40 sacks at 1000' (top of 7" intermediate casing stab).
Plug 6	40 sacks at 350' (base of 9-5/8" surface casing).
Plug 7	10 sacks at surface with dryhole marker.

Location site restoration has been completed.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct

SIGNED R. A. Firth TITLE District Supt. DATE October 14, 1980

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

cc: U.S.G.S., UT; Div. of O. G. & M., UT; J. C. Bendler; E. R. Henry

*See Instructions on Reverse Side

Name Change